Listing of Claims:

Claims 1-31 (Canceled)

Claim 32 (New): A video decoder system for receiving a plurality of programs from corresponding program sources said system comprising:

an electronic program guide (EPG) means including a processor and stored program schedule, said EPG means operable by a user to select a program from said plurality of programs and to select a program processing function for said selected program;

a tuner operable by said processor to tune said video decoder to receive packetized information for said user selected program, including current time reference information from a corresponding program source,

a first time-of-day clock for timing said tuning in accordance with said stored program schedule;

said processor programmed to provide a second time-of-day clock based on said received current time information;

said processor initiating said user selected processing function based upon said second time-of day clock..

Claim 33 (New): The system of claim 32 wherein said current time reference information provides a current time-of-day indication.

Claim 34 (New): The system of claim 32 including:

a display for displaying a current time-of-day to a user;

said second time clock providing an output for updating said displayed current time based upon said current time reference information; and

a filter filtering said output such that changes in current time reference information are smoothed, and providing said filtered output to said display.

Claim 35 (New): The system of claim 32 wherein said user selected programming processing function is selected from the group comprising: display, record and playback.

Claim 36 (New): The system of claim 35 wherein said group further comprises: program transmission, program standards conversion, program encryption, program decryption, program scrambling, program decoding.

Claim 37 (New): The system of claim 32 wherein said processor terminates said selected program processing function based upon said second time-of-day clock.

Claim 38 (New): The system of claim 32 wherein said current time reference information comprises System Time Table (STT) data of an MPEG compliant data stream.and wherein said stored program schedule is derived from an Event Information Table (EIT) of an MPEG compliant data stream.

Claim 39 (New) The system of claim 38 wherein said System Time Table (STT) data includes a time reference indicator and associated correction data sufficient to establish a time of transmission of said program by said corresponding broadcast source accurate to within about plus or minus 4 seconds.

Claim 40 (New): A system comprising:

a video decoder for receiving a plurality of broadcast programs from corresponding broadcast sources, each of said broadcast programs including current time reference information related to said corresponding broadcast source;

said video decoder receiving program schedule information relating to said plurality of broadcast programs;

user operable electronic program guide means allowing a user to select a program from said plurality of broadcast programs, and allowing a user to select at least one program processing function to be carried out on said program;

a scheduling time-of-day clock derived from a source other than the broadcast source corresponding to said program, said scheduling time-of-day clock for scheduling a time for tuning to receive said user selected program including current time reference information;

a processor for updating said scheduling time-of-day clock based upon said current time reference information, said processor initiating execution of said program processing function based on said updated scheduling time-of-day clock.

Claim 41 (New): A system for scheduling and initiating a program processing function to be executed for a user selected program comprising:
a tuner for tuning to receive said user selected program, including current time reference information, from a program source;
a first time of-day clock for tuning said tuner to receive said user selected program, including current time reference information, at a scheduled time for broadcast of said user selected program;
a processor receiving said current time reference information from said received user selected program at said scheduled time and providing a second time-of-day clock based upon said received current time reference information;
said processor initiating a program processing function to be performed for said selected program at a time determined by said second time-of-day clock.

Claim 42 (New): A video decoder system for receiving a plurality of programs from corresponding program sources said system comprising:
a tuner for tuning said video decoder to receive packetized program information from said program source, including current time-of-day information;
an electronic program guide (EPG) means including stored broadcast times for said programs, said EPG means operable by a user to select a program from said plurality of programs and to select a program processing function to be performed in the future for said selected program;
a first time-of-day clock for timing said tuner to receive said packetized program information corresponding to said user selected program in accordance with a stored broadcast time for said user selected program;
a second time-of-day clock derived from said received packetized program information corresponding to said user selected program, said second time of day clock for initiating said user selected processing function.